

Fig.1

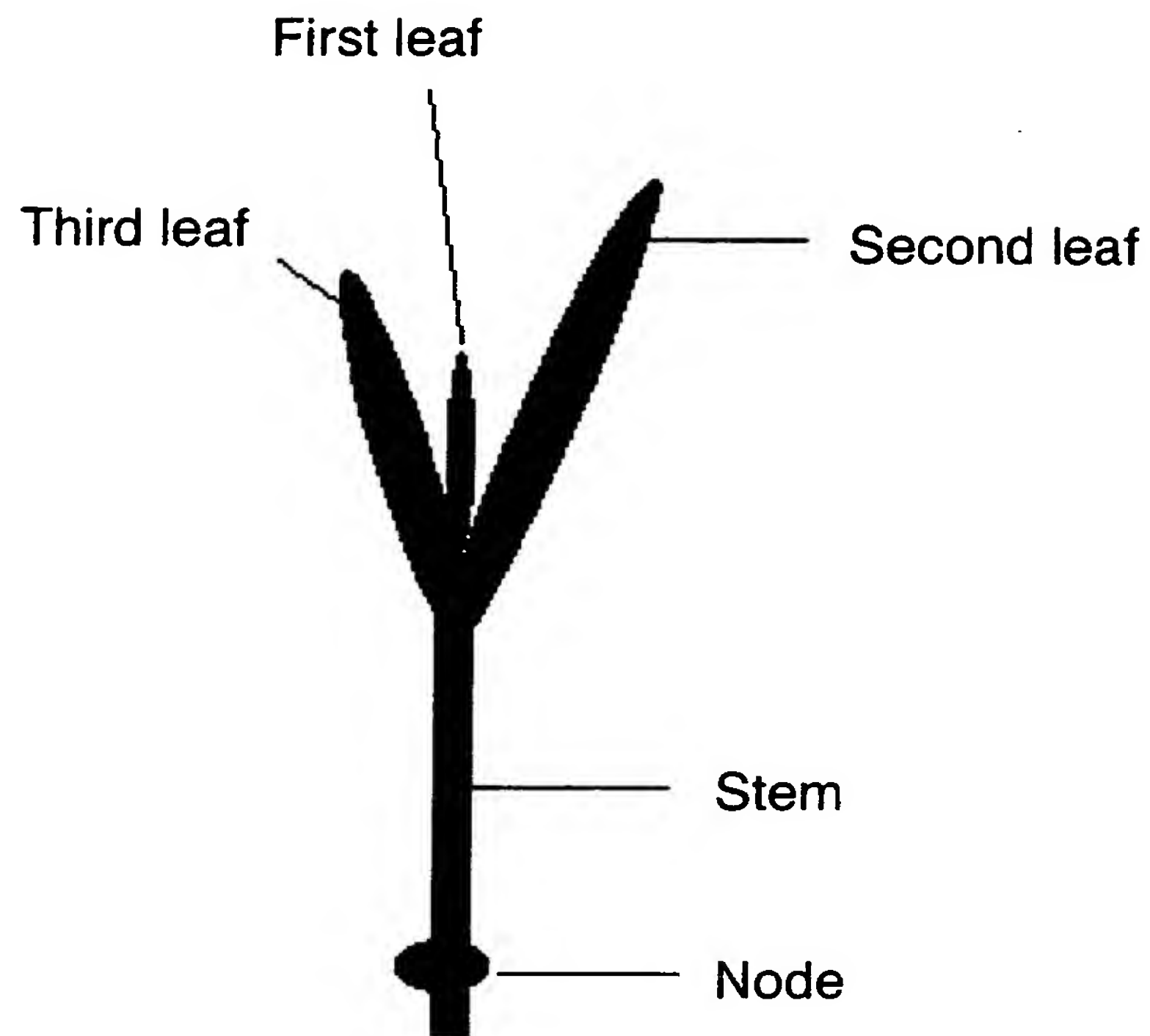


Fig.2

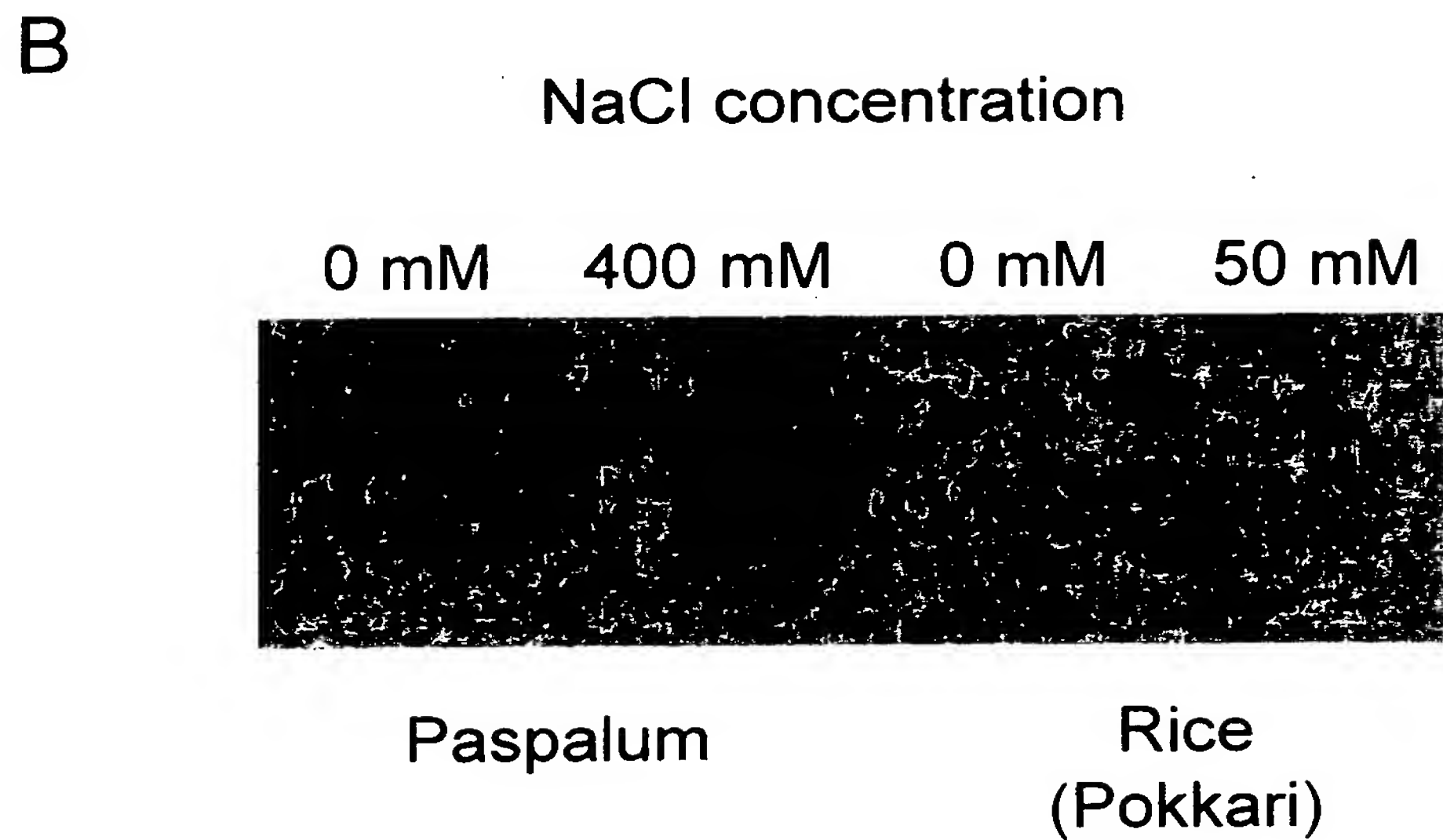
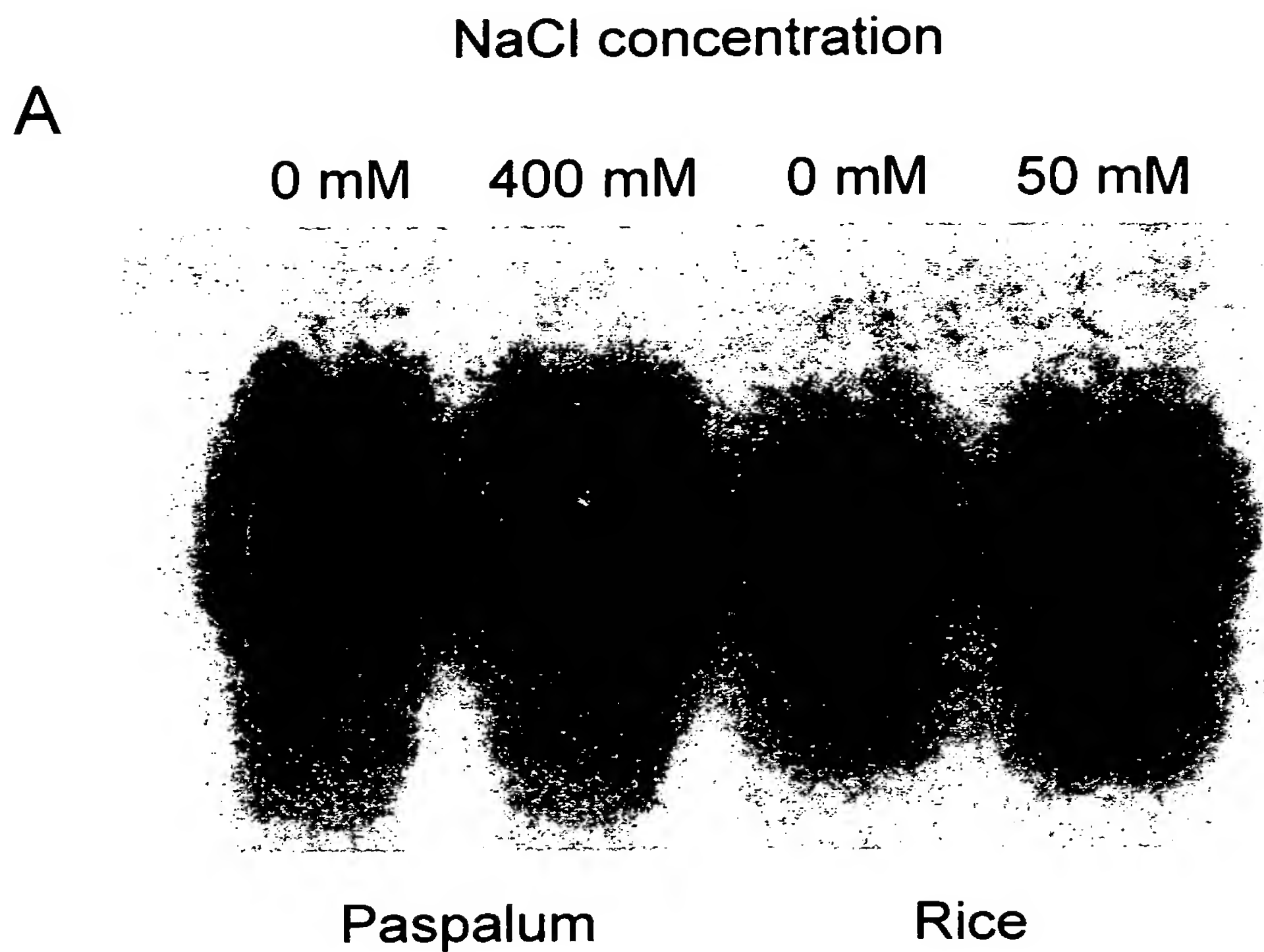


Fig.3

[GENETYX-MAC: phylogenetic tree]

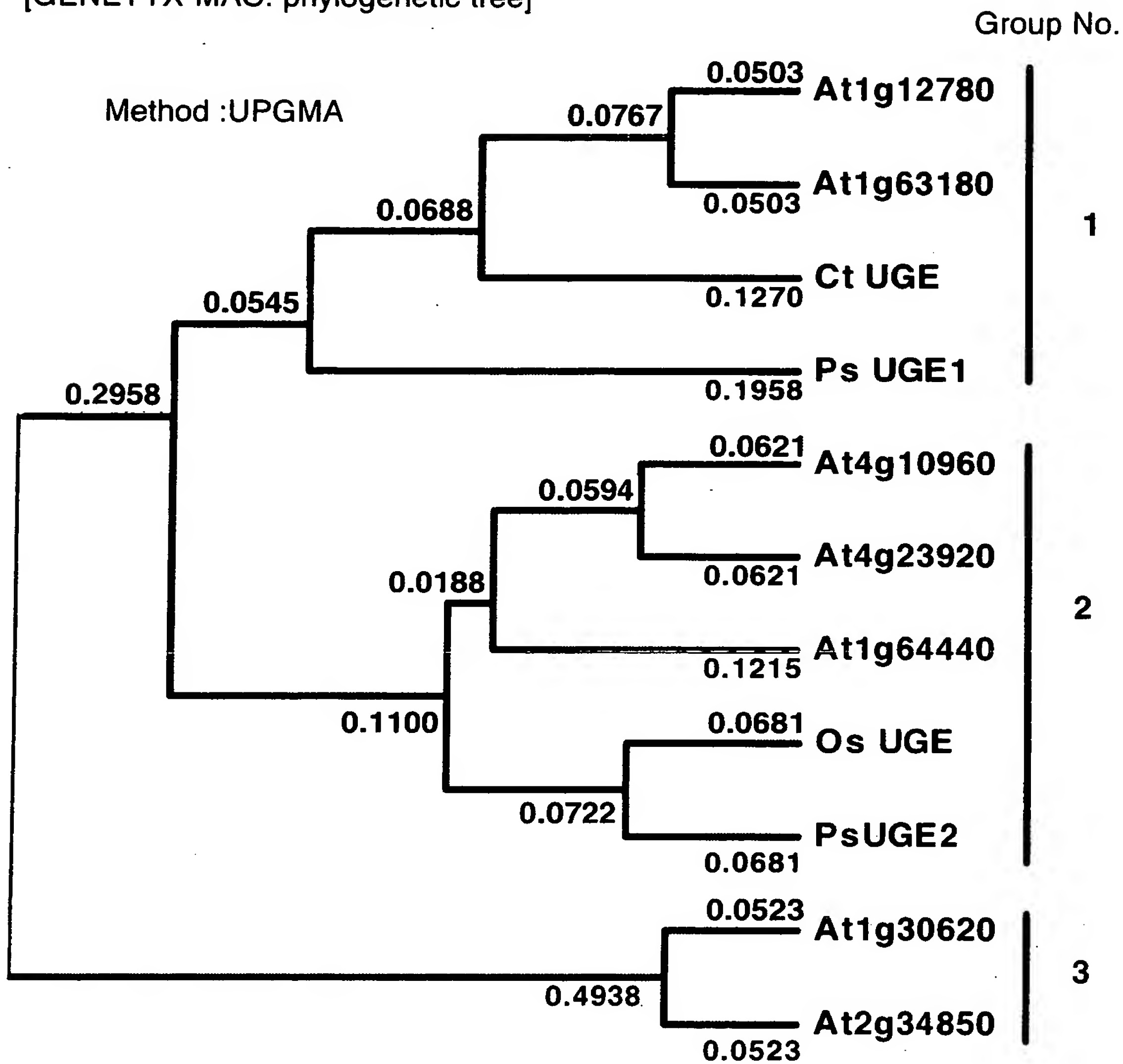


Fig.4

[GENETYX-MAC: Multiple Alignment]

Date : 2003.03.16

Ps UGE1	1	MAIGGAEAGGGGAGAGGR-SVLTGGAGF IGTHALR LEDGYGM TVVDNFHNSVPEALE	59
PsUGE2	1	-----MVSAYLRTIL-VTGGAGYIGSHTVLL LQDGFAMVVVDNLDN ASDVALLA	48
At1g12780	1	-----MGSSVEQN ILVTGGAGF IGTHTVVQLLKDGFKVSI IDNF DNSVI EAVD	48
At1g63180	1	-----MGSSVEQN ILVTGGAGF IGTHTVVQLLN DGFKMTI IDNL DNSV EAVH	48
Ct UGE	1	-----MVS-SRMAGET--ILVTGGAGF IGSTVYVQLLKDGFKMSI IDNLYNSVIDAVH	51
Ps UGE1	60	RVR- IAGPAL-S-AR-DFIRGDLASAGDLEKAF AARAYDAVWHFAGLKAVGESVARPDM	116
PsUGE2	49	RVAQLAAS-SNGGAANLVFHKYDLADRAHALEDIFSSHREAVIHFAGLKAVGESVQKPLL	107
At1g12780	49	RVR-ELVGPDLS-KK-DFNLGDLANKGDI EKLF SKQRFDAY IHFAGLKAVGESVENPARR	105
At1g63180	49	RVR-ELVGPDLS-TK-DFNLGDLANKGDI EKLF SNQRFDAY IHFAGLKAVGESVGNPARR	105
Ct UGE	52	RVR-LVGPLS-SN-DFHHGDLANI HDLDT LFSKTKEDAY IHFAGLKAVGESV LNPSN	108
Ps UGE1	117	YYENNLASTINLYKAMNEHGCKKMVFSSSATVYGWPEVIPCVEDSKQAMNPYGRTKLI	176
PsUGE2	108	YYDNNLIGTITLLEVMARHGCKKLVFSSSATVYGWPKVPTTEFP LCATNPYGRTKLVI	167
At1g12780	106	YFDNNLVGTINLYETMAKYNCKMVFSSSATVYGQPEKIPOMEDFE LKAMNPYGRTKLFL	165
At1g63180	106	YFDNNLVGTINLYETMAKYNCKMVFSSSATVYGQPEI VPCVEDFE LKAMNPYGRTKLFL	165
Ct UGE	109	YYDNNLVATINLFQVMSKFNCKKLVFSSSATVYGQPDQIPCVEDSN LKAMNPYGRSKLFL	168
Ps UGE1	177	EEARDYQRAAPGASIVLLRYFNPIGAHSSGEIGEDPKGVPNNLLPYIQQVAVGRLPELN	236
PsUGE2	168	EDICRDVHRSDPDWKIILLRYFNPPVGAHPGSHIGEDPSGIPNNLMPYIQQVAVGARPHIT	227
At1g12780	166	EEIARDIQKAEPELWRIILLRYFNPPVGAHESGSIIGEDPKGIPNNLMPYIQQVAVGRLPELN	225
At1g63180	166	EEIARDIHAEPELWKIILLRYFNPPVGAHESGRIIGEDPKGIPNNLMPYIQQVAVGRLPELN	225
Ct UGE	169	EEVARDIQRAEPELWRIILLRYFNPPVGAHESGQIGEDPRGLPNNLMPYIQQVAVARLPELN	228
Ps UGE1	237	VYGHDYPTADGTARIDYIHVMDLADGHI AALNKLFDTPDF-GQVAYNLGTGRGTSVLEMV	295
PsUGE2	228	VYGTQYNKKGDTGVRDYIHVMDLADGHI AALGKLYEDSDRI GQEVYNLGTGKGTSVLEMV	287
At1g12780	226	VYGHDYPTEDGSAYRDYIHVMDLADGHI AALAKLFAADPKI-GCTAYNLGTGQGTSVLEMV	284
At1g63180	226	VYGHDYPTMDGSAYRDYIHVMDLADGHI AALNKLFSQSKI-GCTAYNLGTGQGTSVLEMV	284
Ct UGE	229	VYGHDYPTKDGTAIRIDYIHVMDLADGHI AALAKLFTTDNI-GCTAYNLGTGRGTSVLEMV	287
Ps UGE1	296	AAFKKASGKEIPTKMCPRAPGDATVYASTEKAERELGWRAQYGI EEMCRDQWNWAKKNP	355
PsUGE2	288	AAFEKVBGKKIPLVAGRAPGDATVYASTAKAEKELKWKAKYGI EEMCRDQWNWAKKNP	347
At1g12780	285	AAFEKASGKKIPIKLCPRAPGDATVYASTEKAERELGWKAKYGVDEMCRDQWNWAKKNP	344
At1g63180	285	SSFEEKASGKKIPIKLCPRAPGDATVYASTQKAERELGWKAKYGVDEMCRDQWNWAKKNP	344
Ct UGE	288	AAFEKASGKKIPIKMCPRAPGDATVYASTEKAERELGWKAKYGVDEMCRDQWNWAKKNP	347
Ps UGE1	356	YGYCGTAEK--	364
PsUGE2	348	YGYAGSPDNSS	358
At1g12780	345	YGYQNK----	351
At1g63180	345	YGYQKKP----	351
Ct UGE	348	YGYQGGK----	354

Fig.5

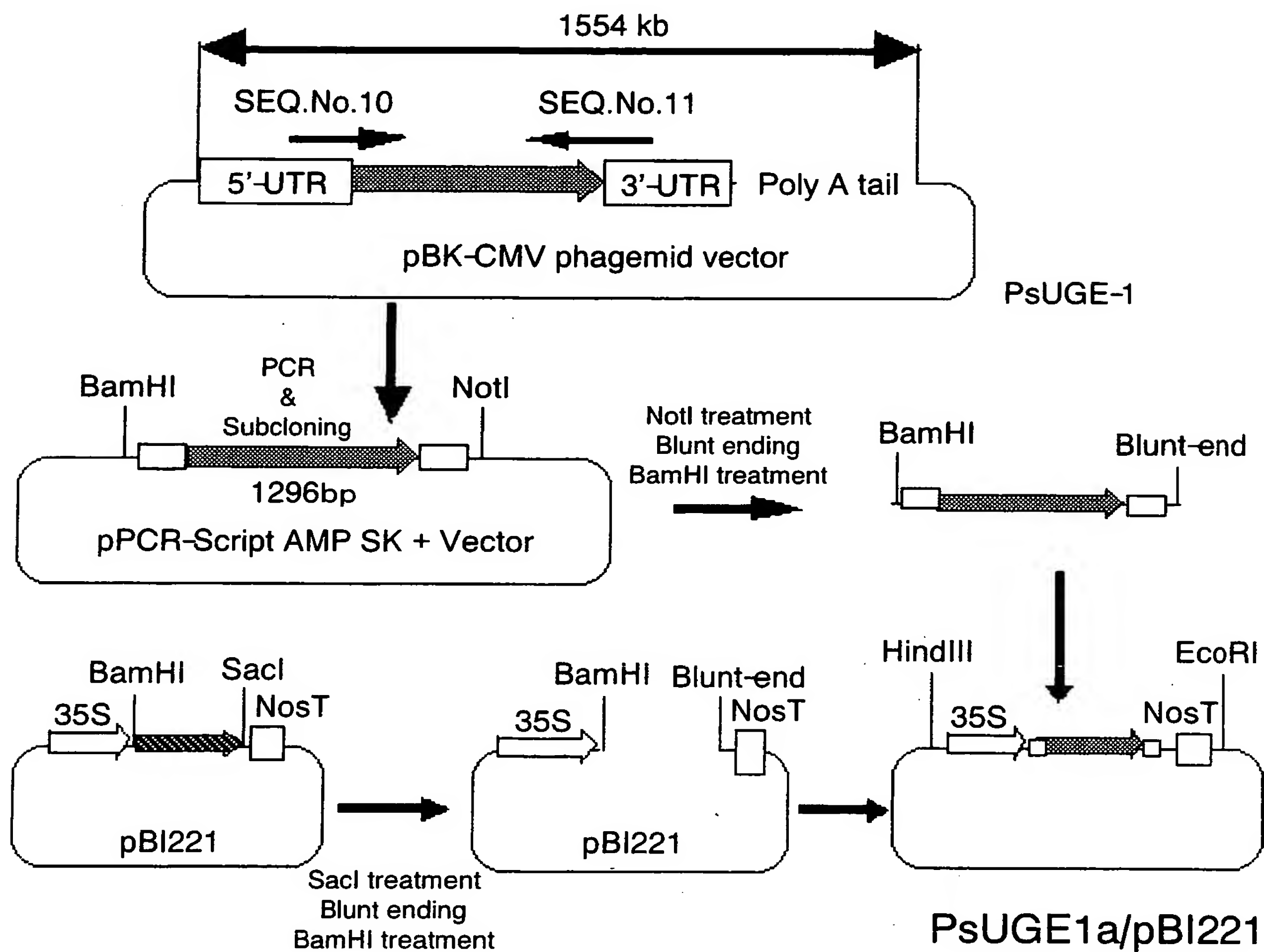


Fig.6

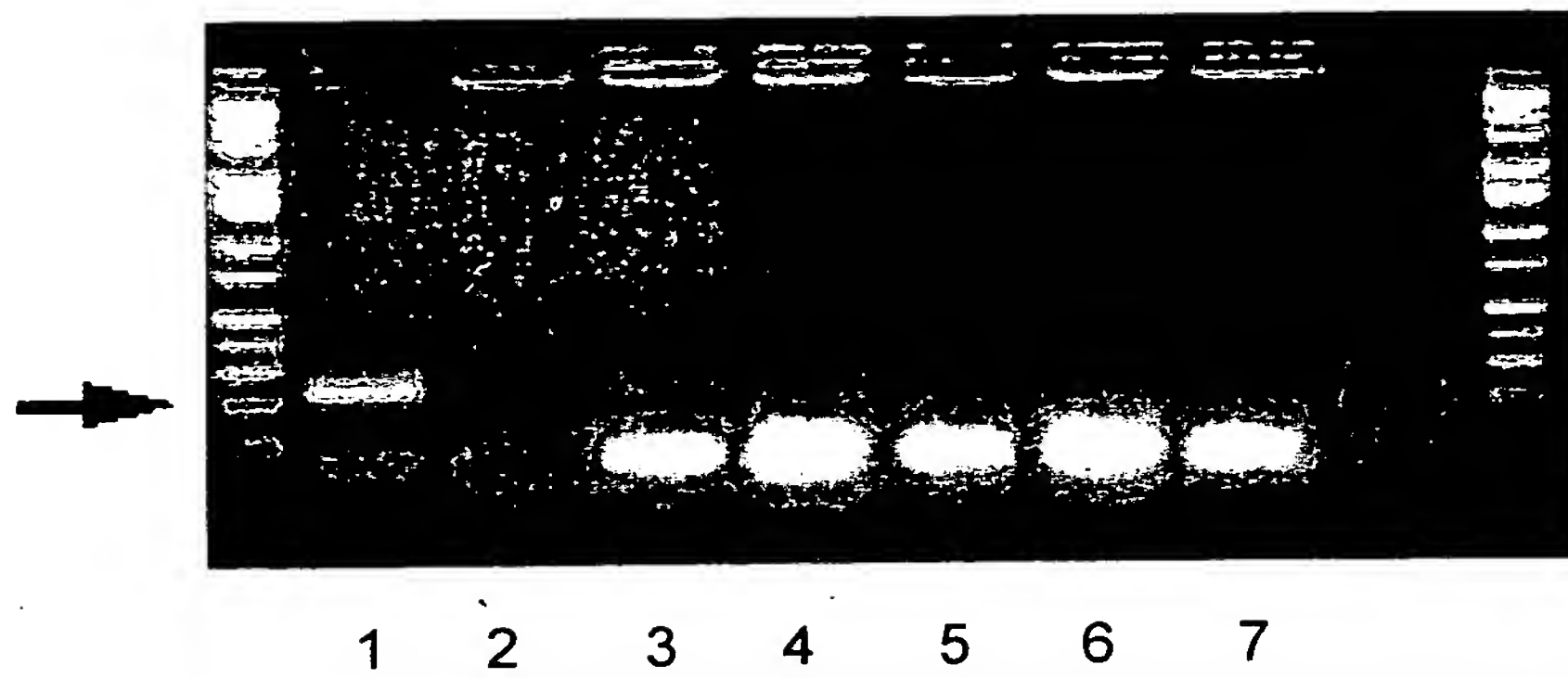
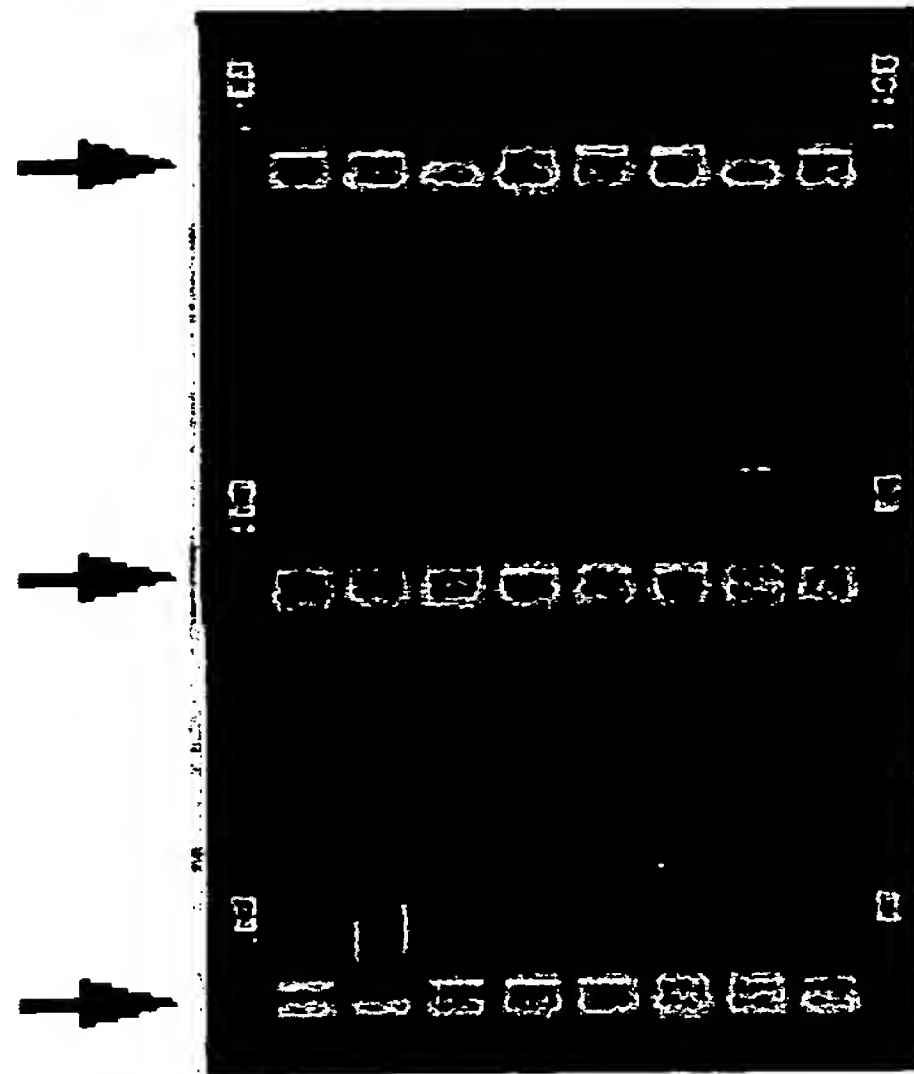
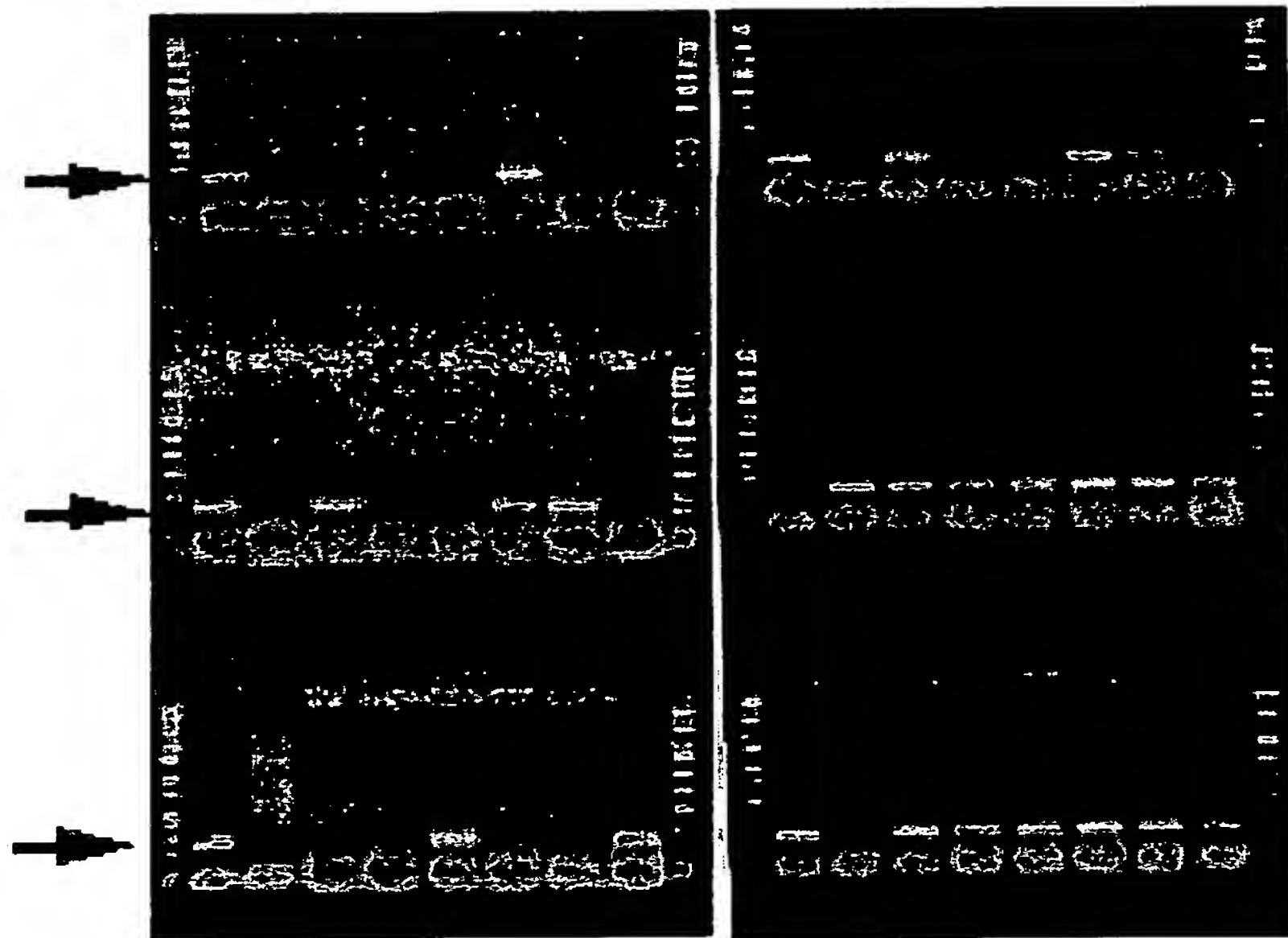


Fig.7



VNT



VNT

Fig.8

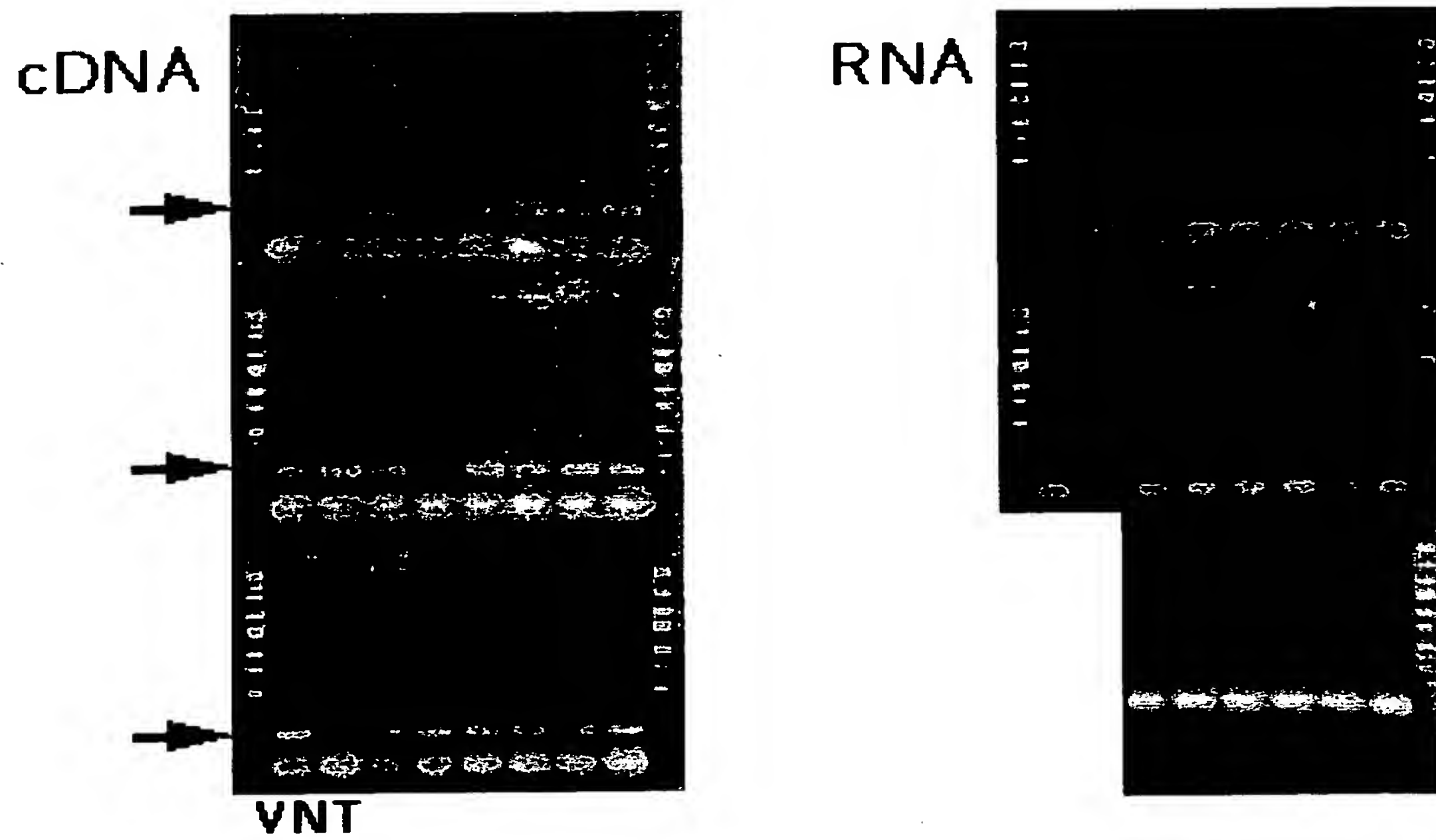


Fig.9



Fig.10

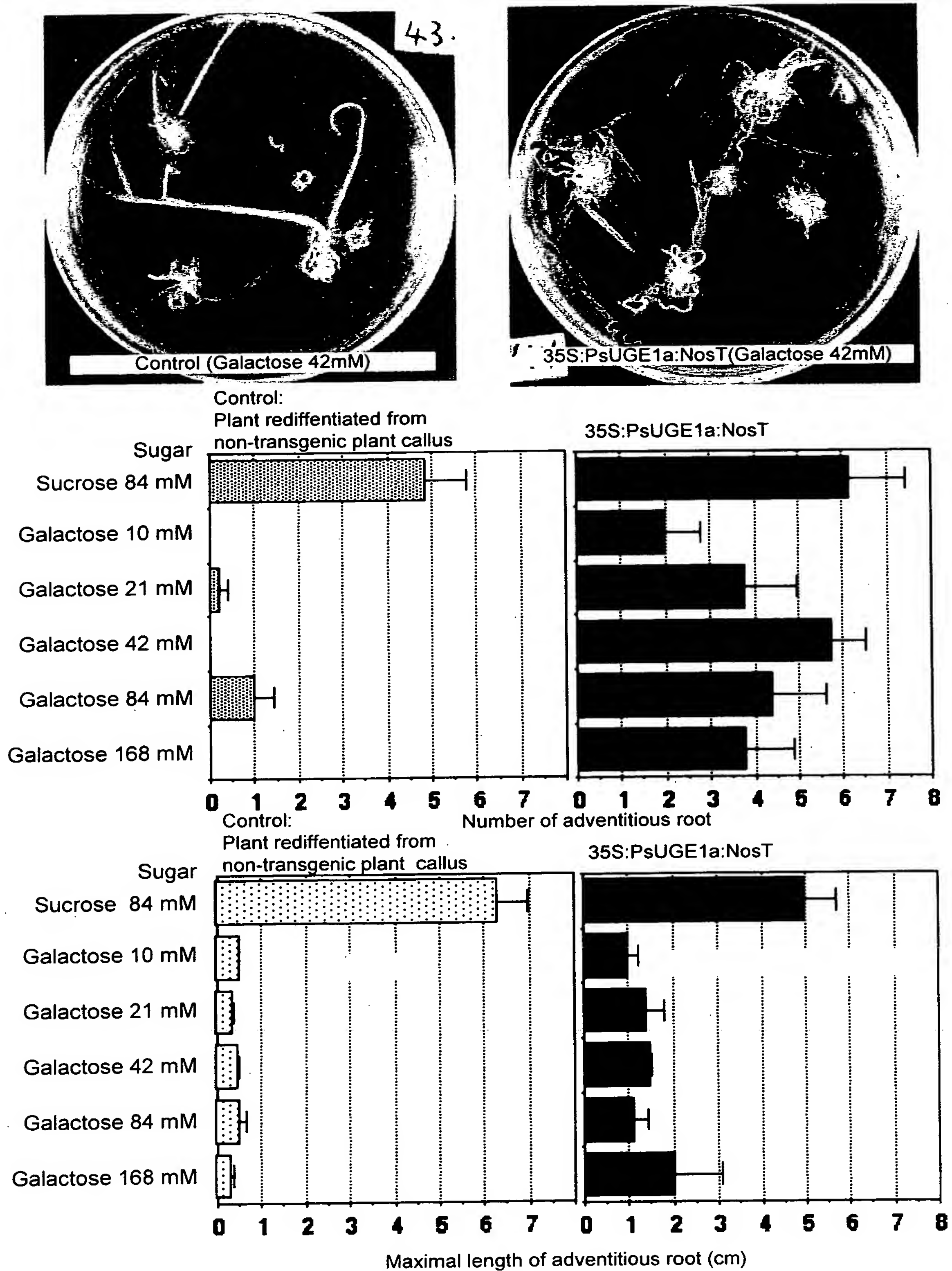


Fig.11

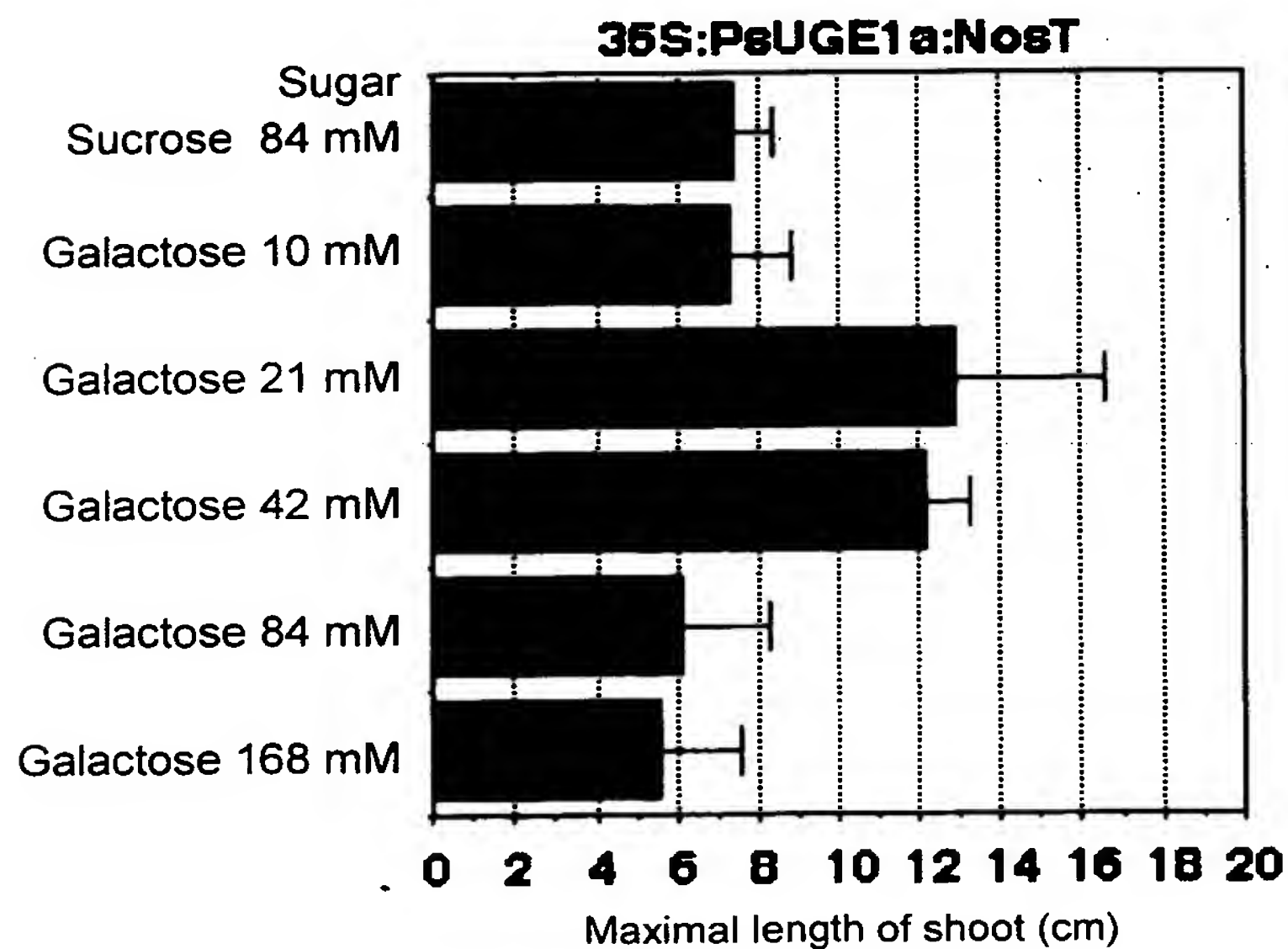
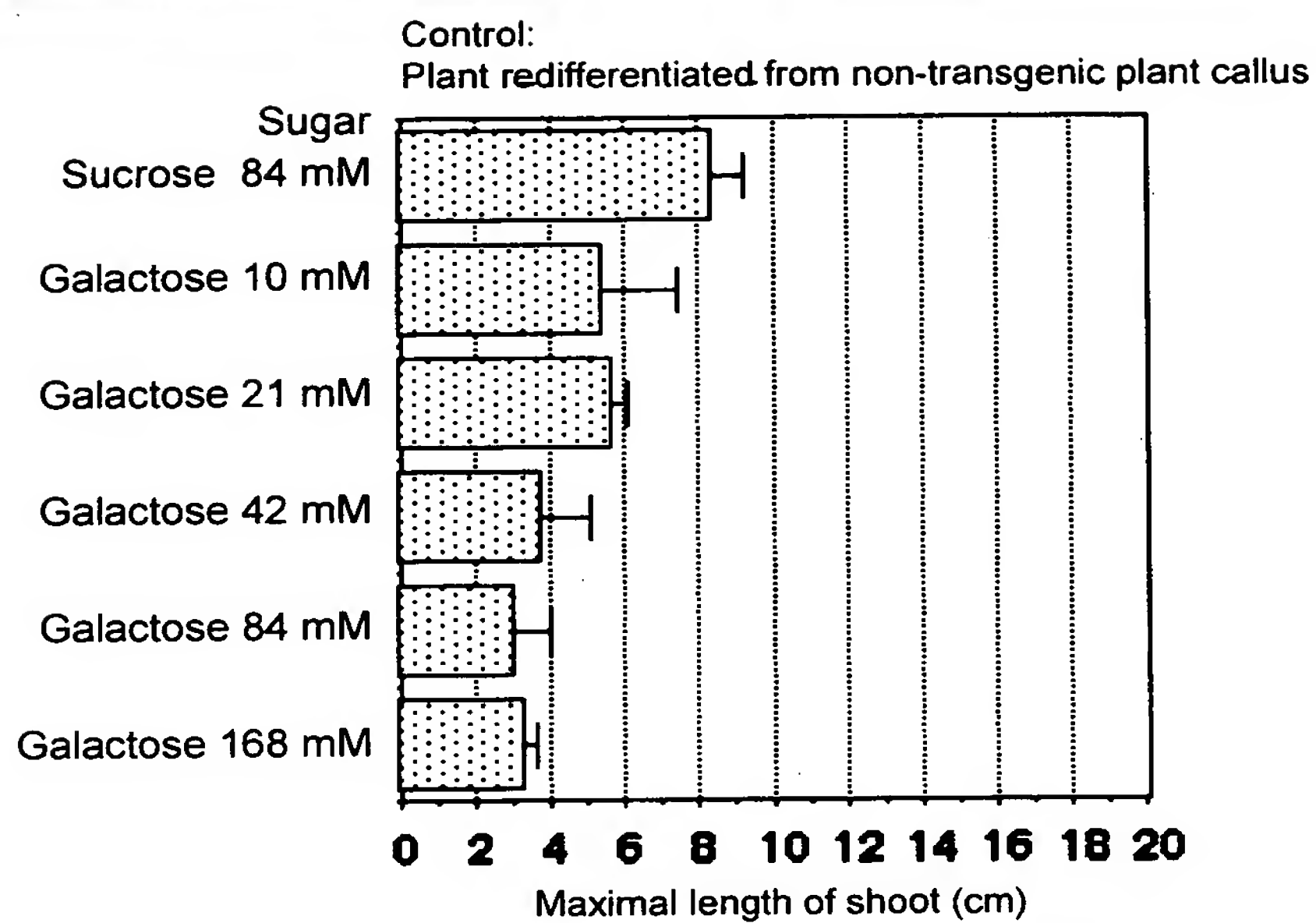
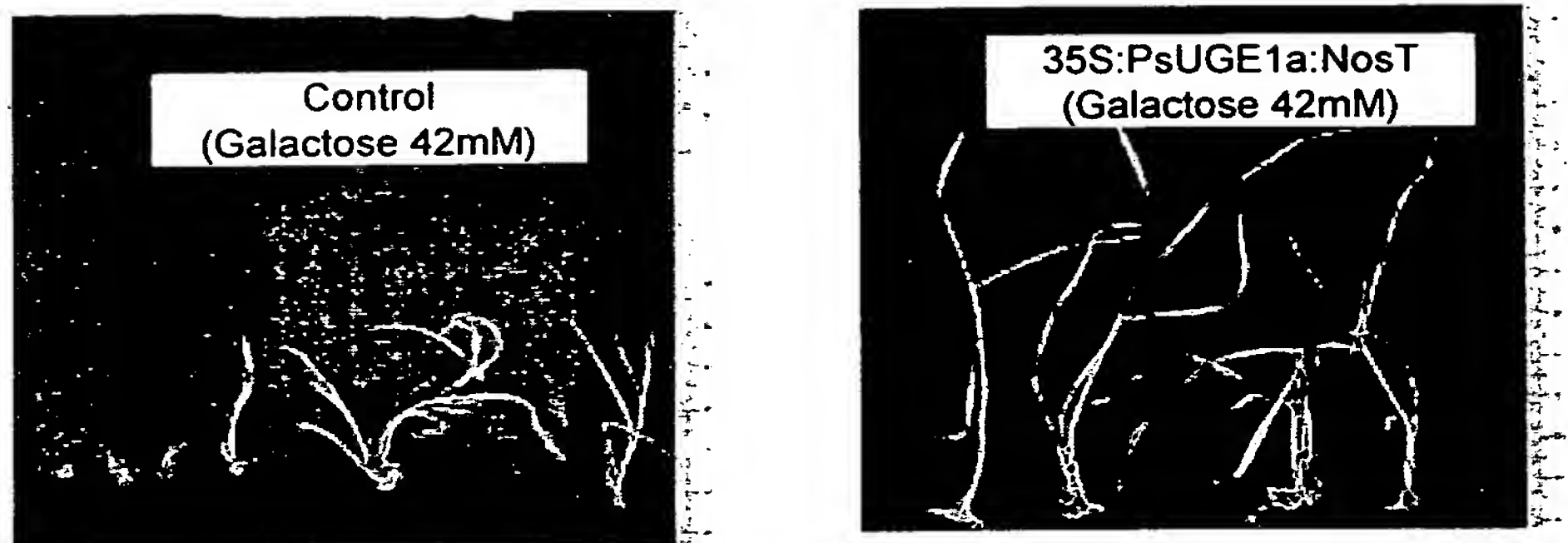


Fig.12

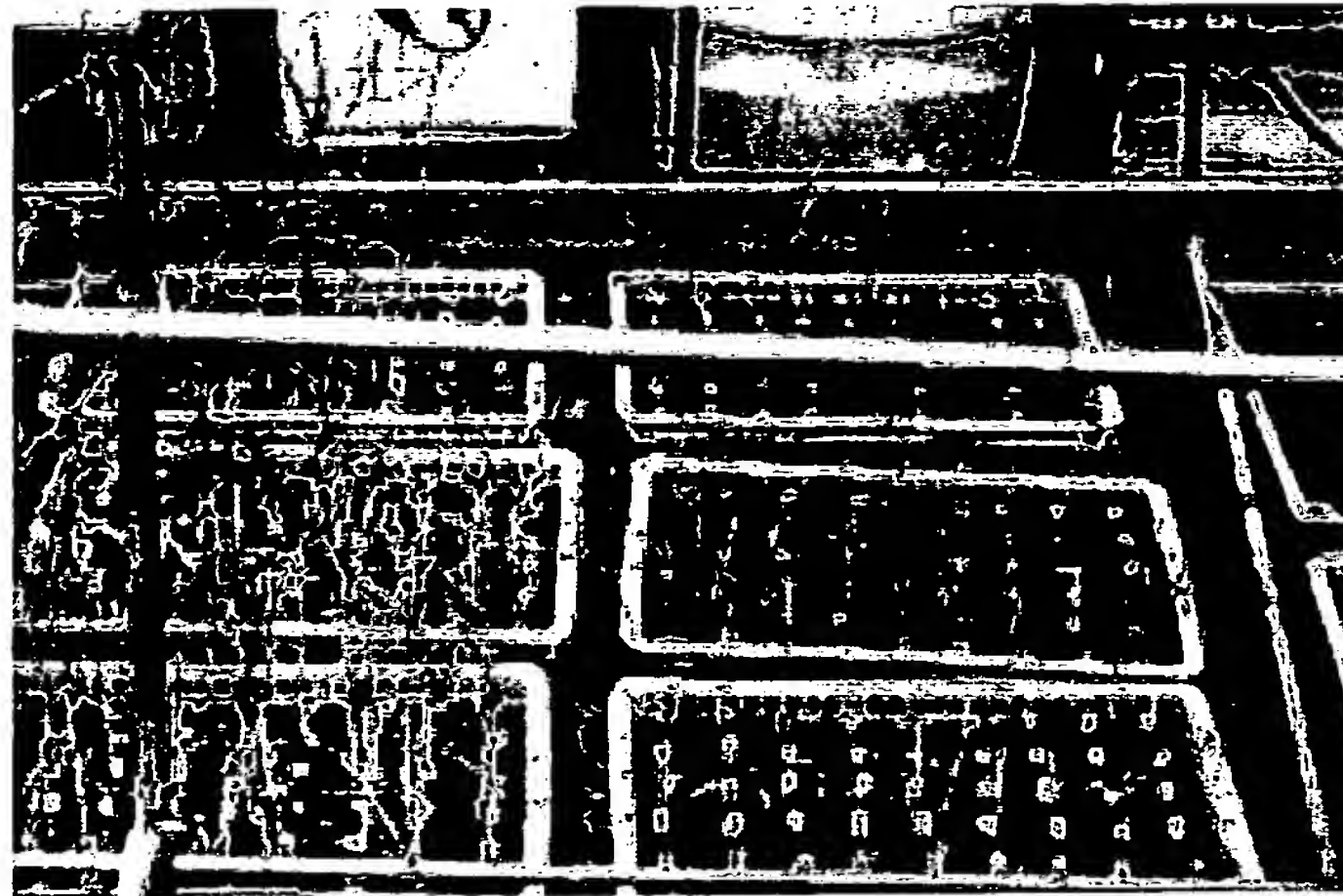


Fig.13

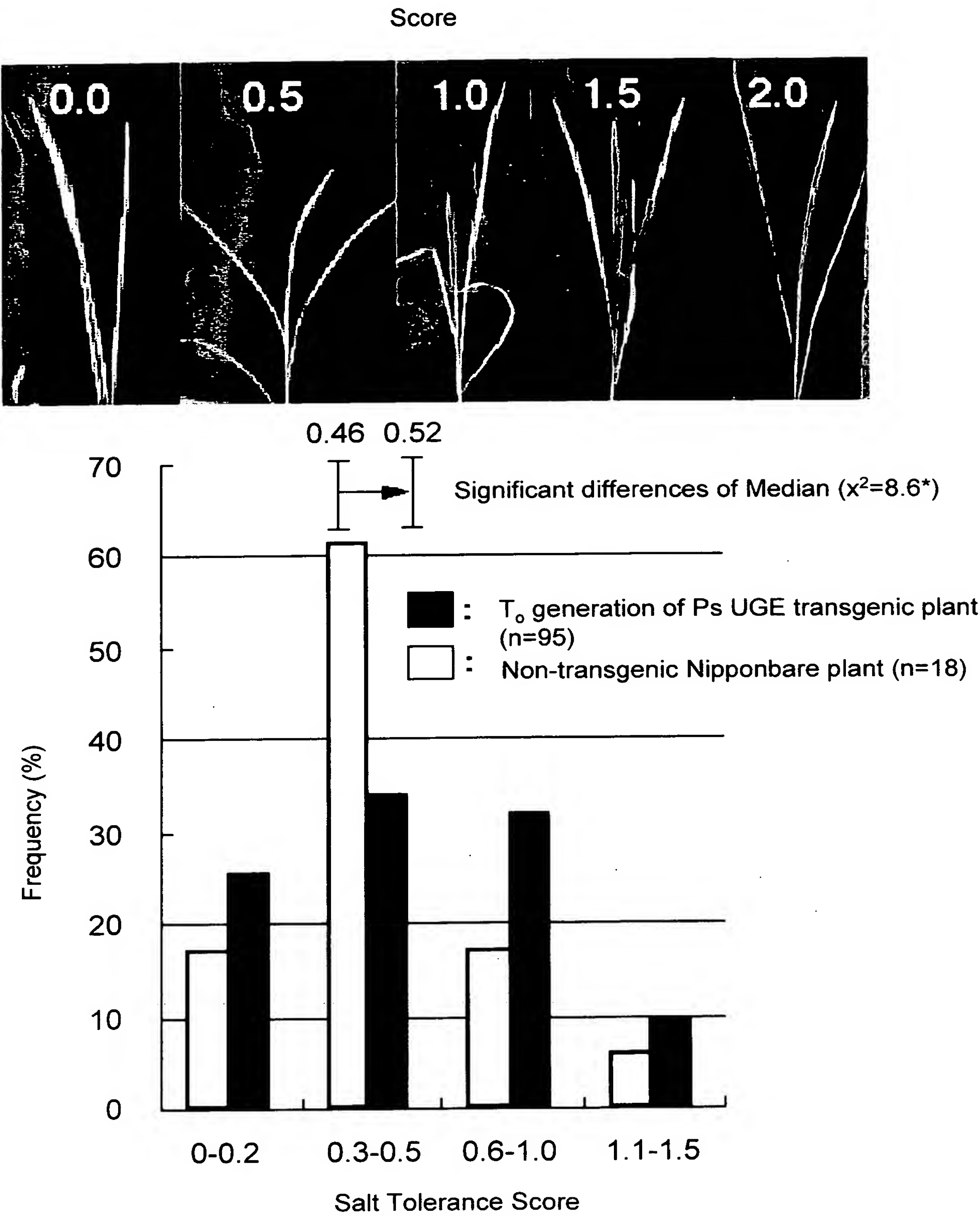
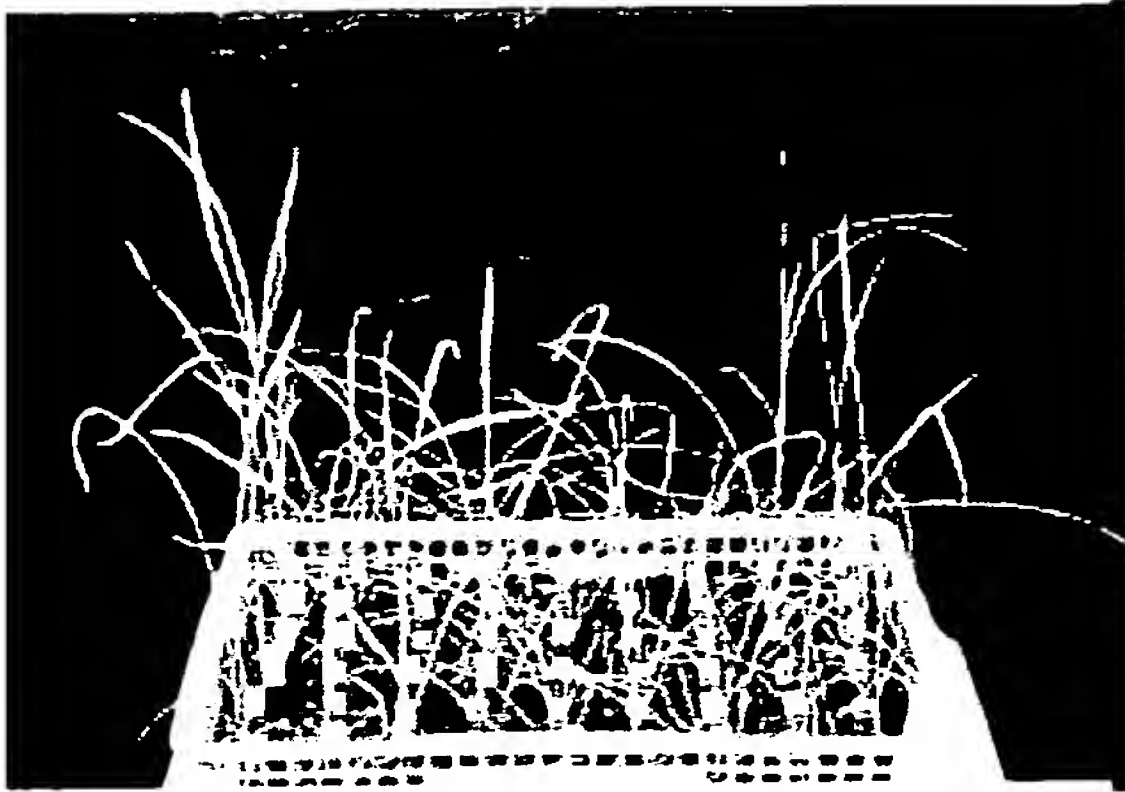


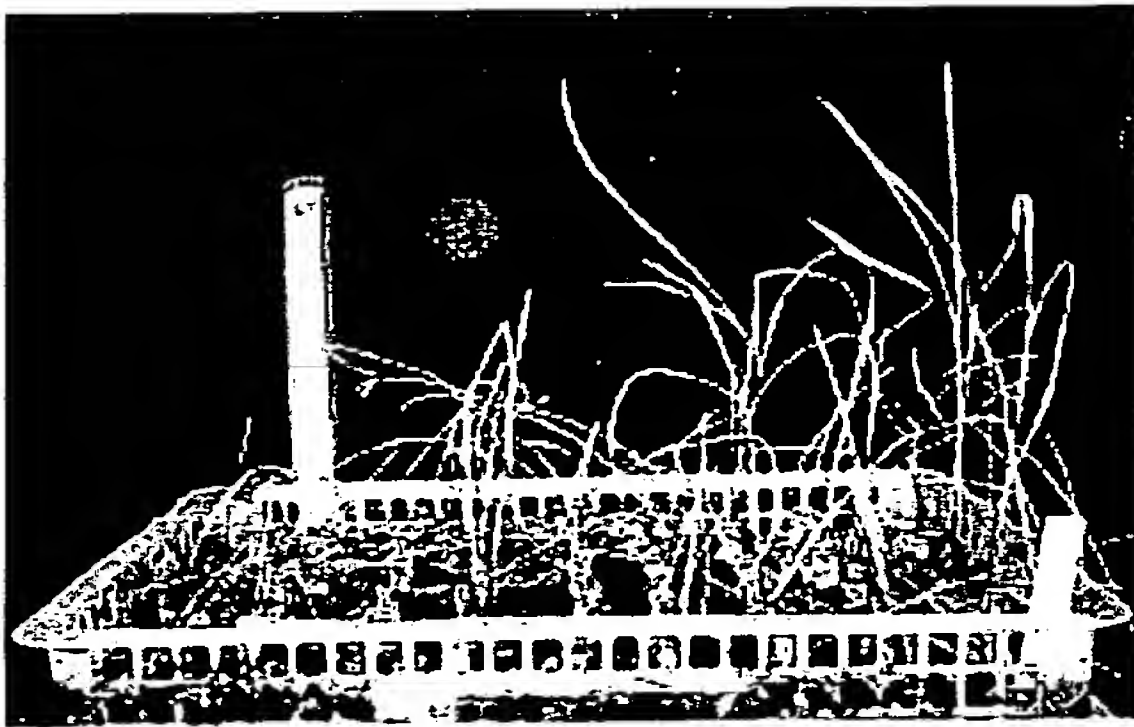
Fig.14



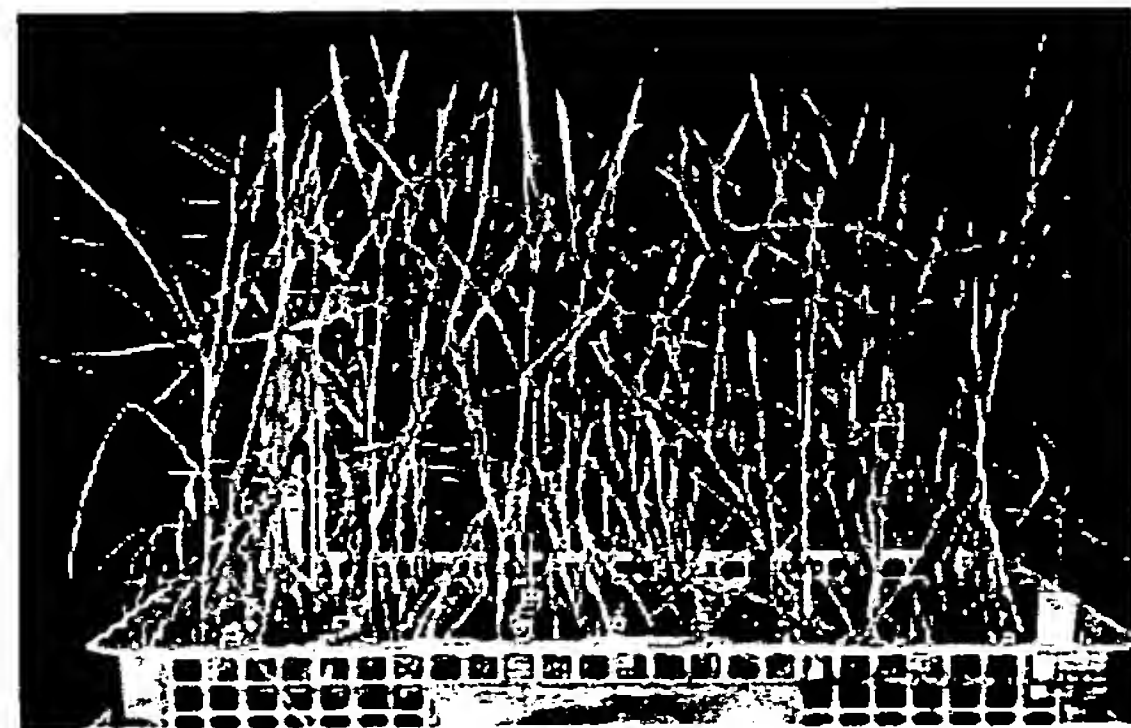
Non-transgenic rice (2 weeks later)



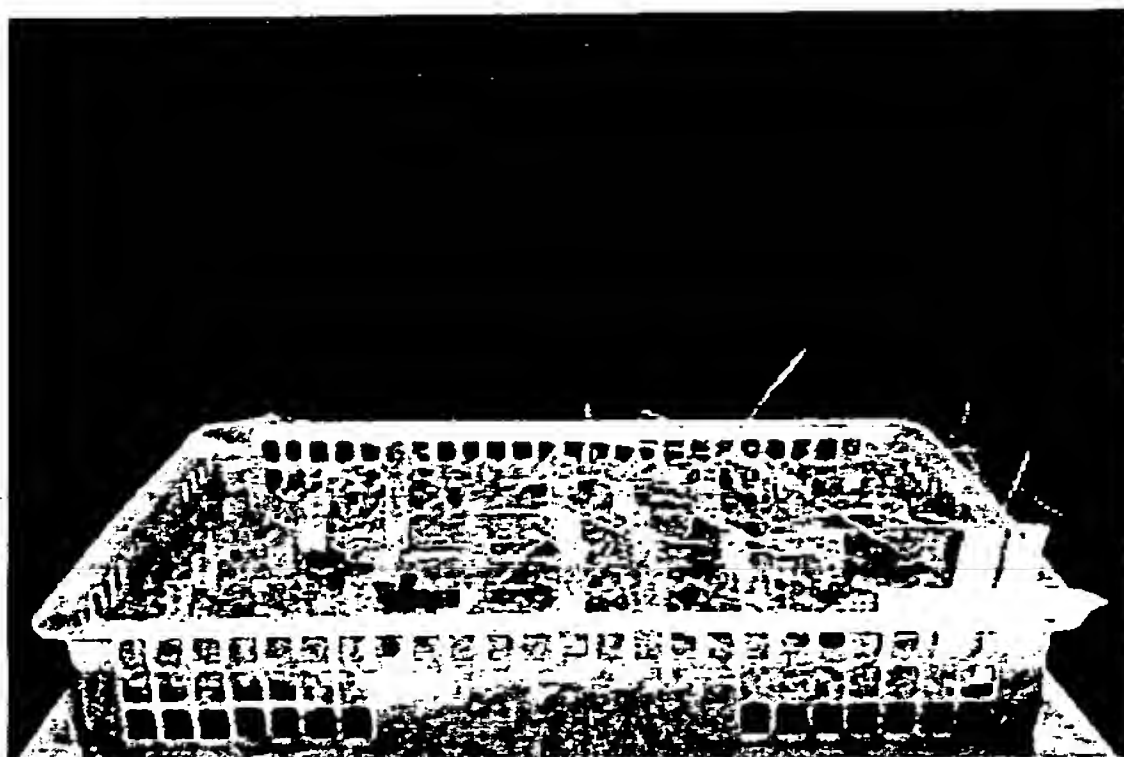
PseUGE transgenic rice (2 weeks later)



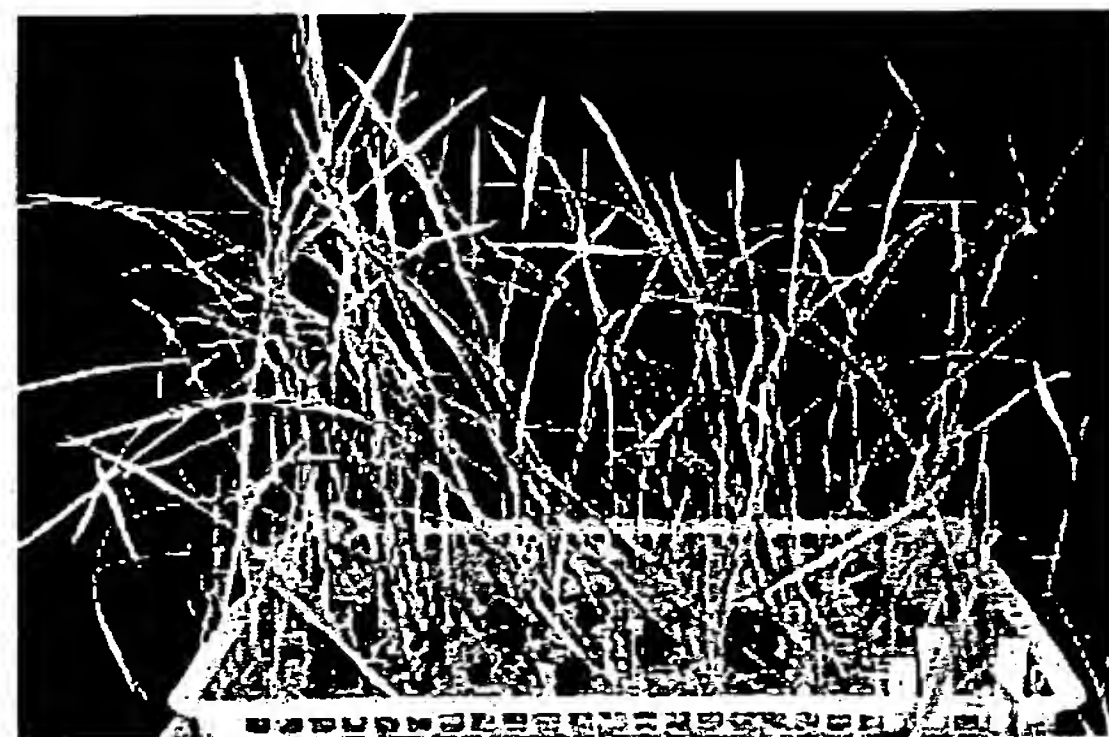
Non-transgenic rice (4 weeks later)



PseUGE transgenic rice (4 weeks later)



Non-transgenic rice (8 weeks later)



PseUGE transgenic rice (8 weeks later)

Fig.15



Fig.16

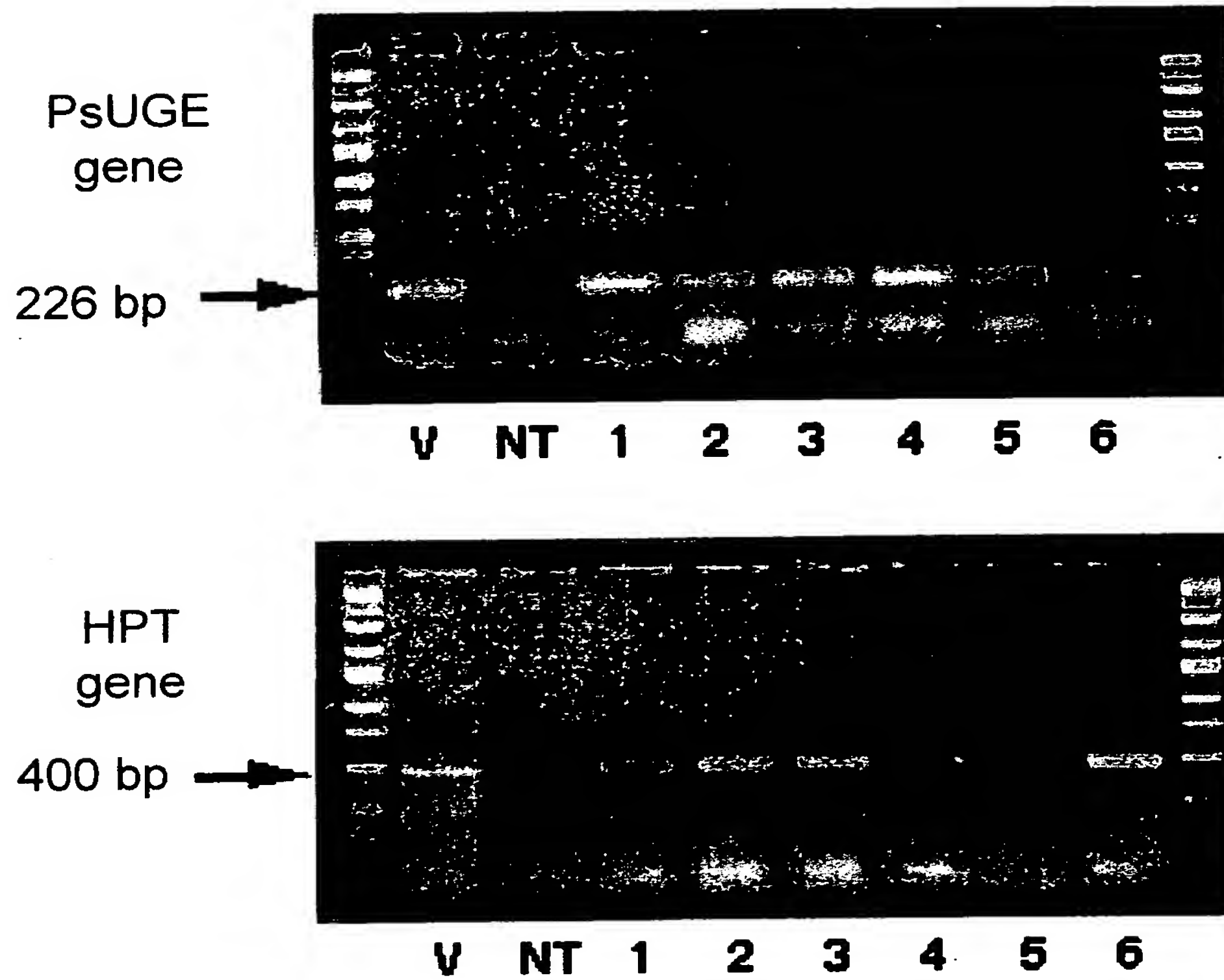


Fig.17

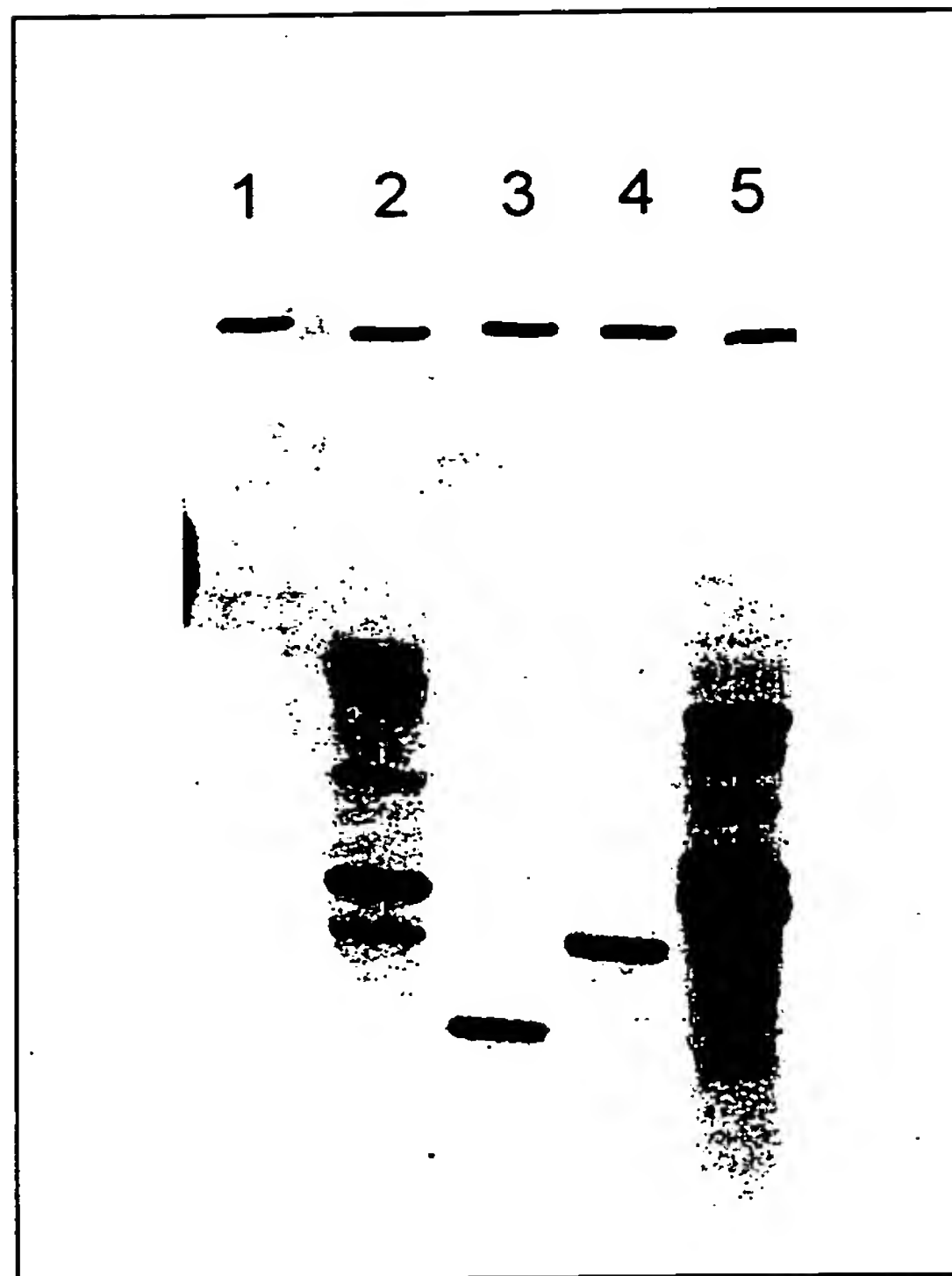


Fig.18

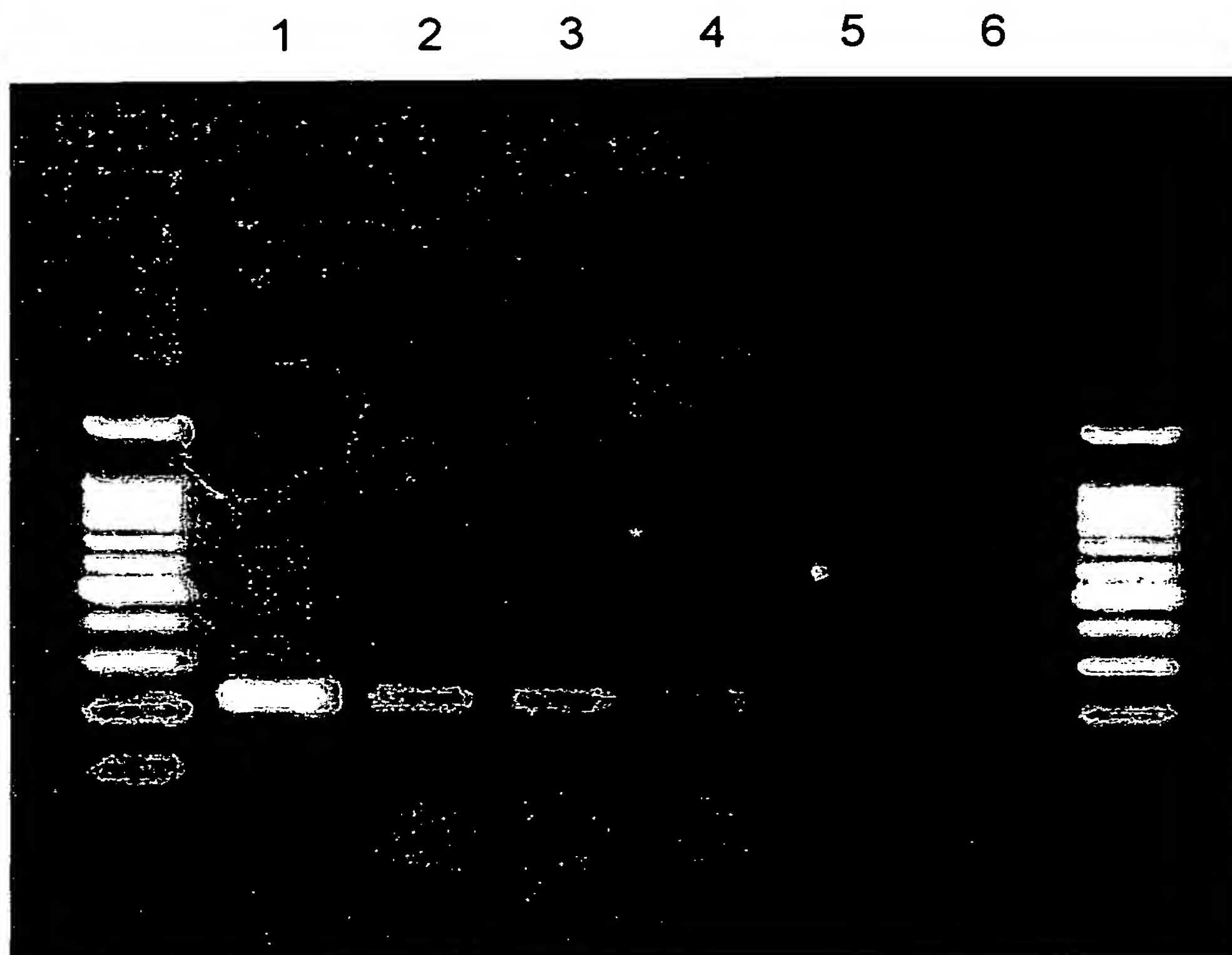


Fig.19

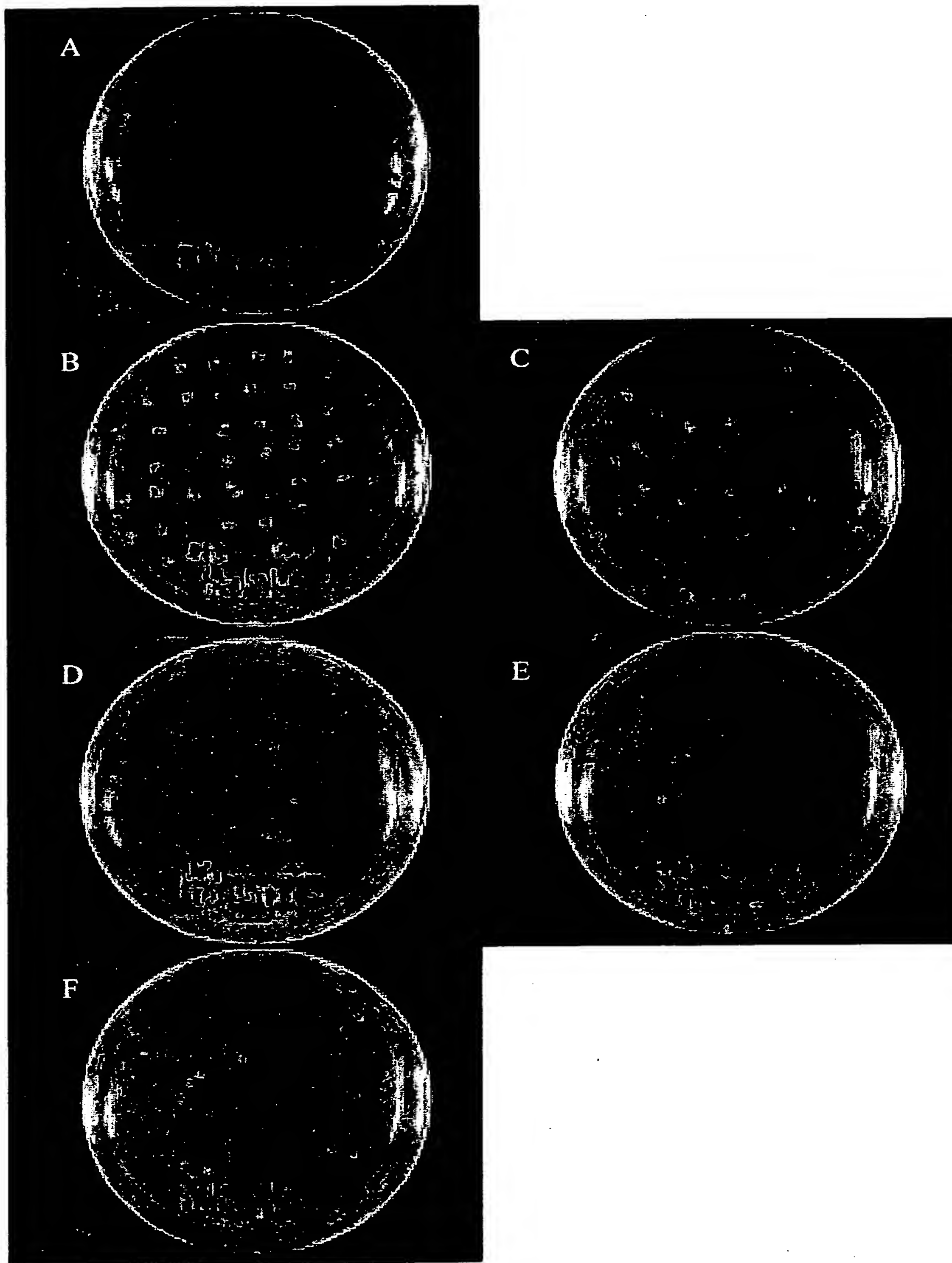


Fig.20

